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24265  
 R/008/61/000/002/003/008  
 D235/D304

A general method of solving ...

which satisfies the equation (1.1). This solution may also be expressed under the shape of a series of fundamental functions:

$$w^{(0)} = \sum_n \frac{p_n a^4}{K \alpha_n^4} \cdot \omega_n(x) \quad (n = 1, 3, 5, \dots) \quad (4.1b)$$

The solution of the sags may be written as a function of two integration constants  $C_{1n}$  and  $C_{2n}$ :

$$w(x, y) = \sum_n \frac{p_n a^4}{K \alpha_n^4} \left( 1 + C_{1n} \operatorname{ch} \gamma_{1n} \alpha_n \frac{y}{a} \cdot \cos \gamma_{2n} \alpha_n \frac{y}{a} + \right. \\ \left. + C_{2n} \operatorname{sh} \gamma_{1n} \alpha_n \frac{y}{a} \sin \gamma_{2n} \alpha_n \frac{y}{a} \right) \omega_n(x); \quad (n = 1, 3, 5, \dots) \quad (4.2)$$

wherefrom the author deduces the finite shape of the particular solution:

$$w_{\max} = \frac{pa^4}{384K} + \sum_n \frac{p_n a^4}{K \alpha_n^4} C_{1n} \cdot \omega_n(0).$$

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R/008/61/000/002/103/108

D255/D304

A general method of solving ...

The bending moments may be obtained by taking into consideration also the second term of the series development. There are 2 figures, 2 tables, and 14 references: 8 Soviet-bloc and 6 non-Soviet-bloc. The two references to the English-language publications read as follows: S.T.A. Odman: Studies on Boundary Value Problems, Stockholm, 1955; and St.P. Timoshenko, and S. Woinowsky-Krieger: Theory of Plates and Shells, 2nd Ed., Mc.Graw-Hill, Book Company, New York - Toronto - London, 1959, 202.

ASSOCIATION: Institutul de cercetari in constructii si economia constructiilor (INCERC) (Research Institute of Constructions and Construction Economy)

SUBMITTED: November 16, 1960

Card 7/8

SOARE, M.

"Plane problems in the theory of elasticity" by P. P. Teodorescu.  
Reviewed by M. Soare. Studii cerc nec apl 12 no.4:923-924 '61.

(Teodorescu, P. P.) (Surfaces) (Elasticity)

EMESCU, St., ing.; SOARE, M., ing.; MANARI, D., ing.

Construction elements in ferrocement. Pt.3. Bul cerc  
constr sistemat no.2:32-38 '62.

1. Institutul de cercetari in constructii si economia  
constructiilor.

R/008/62/013/002/005/009  
D272/D308

AUTHOR: Soare, Mircea

TITLE: Theory of bending of a saddle-shaped hyperbolic paraboloid

PERIODICAL: Studii si cercetări de mecanică aplicată, no. 2,  
1962, 429 - 450

TEXT: The purpose of the paper is to establish a solution in the bending theory of the hyperbolic paraboloid freely supported along its edge and rectangular in plan. The equations of V.Z. Vlasov were chosen as a starting point. Using the theory of shallow shells, the deflection and the stress function are looked for in the form of a double trigonometrical series. The magnitudes characterizing the bending state are determined as the difference between two terms, the first term representing the effect of a plate having the same boundary, the second effect of the curvature is subtracted. The author describes in detail the solution for a load uniformly distributed in the horizontal plane. The overall equilibrium conditions and the particularities of the stressed state are examined. A numerical

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Theory of bending of a ... ,

R/008/62/013/002/005/009  
D272/D308

example is given determining the order of magnitude of the normal and shear forces. S.A. Ambartsumyan (Prikladnaya Matematika i Mekhanika, no. 5, 1947) is mentioned for his contributions in the field. There are 6 figures.

ASSOCIATION: Institutul de cercetari în constructii și economia construcțiilor (INCERC), București (Institute of Construction Research and Construction Economics)

SUBMITTED: November 10, 1961

Card 2/2

SOARE, Mircea (Bukarest)

Some aspects of numerical translation shell computation.  
Archiw inz lad 8 no.2:131-159 '62.

14386  
R/008/62/013/005/008/008  
A065/A126

144200

AUTHOR: Soare, Mircea

TITLE: Contribution to the study of deformations of thin shells

PERIODICAL: Studii și cercetări de mecanică aplicată, v. 13, no. 5, 1962, 1,279  
- 1,299

TEXT: The author studies the membrane deformations of thin shells with a positive Gauss curvature and applies the results to elliptic and revolution paraboloids. He first establishes the basic equations for certain thin shells and flattened thin shells, which show that the differential operator of the sags is identical with the differential operator of the function of stresses. This fact represents the extension of Mohr's analogy from the straight beam to the membrane. The comparison of the basic equations of the bending theory to those of the membrane theory shows that the order of the equations in the membrane theory is four, i.e., two times lower than in the bending theory. After having determined the sags, the shearing moments and forces may be determined by the relations of the theory of plane plates. The author then determines the membrane stresses in an el-

Card 1/2

SOARE, M.

Contributions to studies on form changes of shells. Rev mec appl  
8 no.3:501-521 '63.

1. Institut fur Bauwesen und Bauwirtschaft (Institutul de  
cercașari în construcții și economia construcțiilor).

Mihocu, Mircea

Theory of symmetrical bending of the shallow paraboloid of revolution on circular planform. Studii cerc. mat. apl. 14 no.4:837-850 '68.

Institutul de cercetari in constructii si tehnica constructiilor, Bucuresti.

SOARE, M.

"Machines and devices for plant culture protection and combating the injurious elements" by H. Dunnebeil. Reviewed by M. Soare. Metalurgica constr mas 15 no.2:180 F '63.

SOARE, M.

"Engine combustibles and lubricants" by C. Arama, B. Grunwald,  
Tr. Dudas, Al. Danescu, N. Apostolescu, A. Manole. Reviewed by  
M. Soare. Metalurgia si constr mas 15 no.3:278-279 Mr '63.

SOARE, M.

"Theory of space, time, and gravitation" by V.A Fock. Reviewed  
by M. Soare. Constr mas 15 no.4:340 Ap '63.

Shumman.

"Physical metallurgy" by H. Schumann. Reviewed by M. Soare.  
Monstr mas 15 no. 53409-410 My '63.

TURAI, I., prof.; CONSTANTINESCU, O., dr.; CONSTANTINESCU, M., dr.;  
SOARE, M., dr.; VIDLESCU, V., ext.

Findings and results in the treatment of acute pancreatitis.  
Med. intern. 15 no.6:659-665 Je '63.

1. Lucrare efectuata in Clinica a II-a chirurgicala, Spitalul  
"I.C. Frimu", Bucuresti, (director prof. I. Turai). 2. Membru  
corespondent al Academiei R.P.R. (for Turai).  
(PANCREATITIS) (PROCAINE) (ANTIHISTAMINICS)  
(ATROPINE) (ANTIBIOTICS)

SOARE, M.

"Fluid upsetting pumps" by C. Turcanu, n. Ganea. Reviewed by  
M. Soare. Constr mas 15 no.64471-472 Ja '63.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651810019-9

Reinforce, Inc., Dept. 10000, 1000 N. 10th St.

Reinforce's market leading line of industrial nail roofs. Reinforce is located in P.O. Box 555-4501 Myrtle

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651810019-9"

Complexer circuits of corrugated cylindrical thin plates.  
Gulyas, Bern et al. apl. 19 nov. 5.1109-1025 - '64.

U.S. Institute of Building Research and Construction Bibliography,  
Baltimore. Submitted July 13, 1964.

SOARE, N.

"Physical metallurgy" by H. Schumann. Reviewed by N. Soare.  
Metalurgia Rum 15 no.4:333-334 Ap '63.

REBUSAPCA, D.; SOARE, R.; MASALA, Gh.; PETCU, Gh.; HRISTACHE, I.

Machine building industry, a creation of the People's  
Democratic Regime of Rumania. Bul Inst Politeh 26 no.4:  
29-37 Jl-Ag '64.

1. Chair of Political Economy, Polytechnic Institute, Bucharest.

St. 165 - 1

"Theory of stability with reference to the Lend and font rules"  
by Gustav Burgermeister, Herbert Stump, Horst Kretzschmar, P.  
P., Reviewed by S. Soare. Studii cerc. mat. 16 (1.e., 15) no.3:  
SCD '64.

SCPA, F.

Machine equipment of the theater stage in the Workers Home in Trbovlje.  
p. 126

STROJNESKI VESTNIK. (Fakulteta za elektrotehniko in strojnictvo Univerze v Ljubljani Institut za turbostroje v Ljubljani Drustvo strojnih inzenirjev in tehnikov LR Slovenije in Strojna industrija Slovenija) Ljubljana, Yugoslavia. Vol. 3, no. 4/5, Sept. 1957.

Monthly List of East European Accession (EEAI) LC Vol. 8, no. 6, June 1959  
Uncl.

SOBACHEMKOV, P. A.

Ensilage

Using ensilage correctly in stall feeding. Sots.zhiv No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 Uncl.

RECORDED BY: . . .

Ensilage

Plan to prepare silage early. Korm. baza 3 no. 3 '52

9. MONTHLY LIST OF MILITARY MISSIONS, Library of Congress, July 1952, Uncl.

SOBACHENKOV, P.

Ensilage

Ensilage of waste products from vegetable growing and aftermath of grasses. Kolkh. proizv., no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

SOBACHENKOV, P. A.

Feeding and Feeding Stuffs

Raise the quality of work in growing succulent fodder crops. Sets. zhiv 14 No. 3,  
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9. Monthly List of Russian Accessions, Library of Congress, June 1952 Uncl.

КОПАНИИ, С. А.

Ensilage

Stocking or, high-quality silage. Sots. zhiv. 14, No. 7, 1,52.

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52

BOYKO, Dmitriy Fedorovich; KHARLAMPIDI, Georgiy Pavlovich; SOBACHIK, A.P.,  
spetsared.; GORNIK, M.V., red.; PECHENKIN, I.V., tekhn.red.

[Introduce the SZhK preparation more widely] Shire vnedriat'  
preparat SZhK. Moskva, 1960. 11 p. (MIRA 13:11)

l. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.  
Pavil'on "Ovtsevodstvo."  
(Hormones) (Stock and stockbreeding)

SOBACHKIN, A.A., assistant.

Effect of molybdenum on the growth and nitrogen metabolism in  
cauliflower [with summary in English]. Izv. TSKhA no. 3:83-90 '58.  
(MIRA 11:7)

(Cauliflower)  
(Plants, Effect of molybdenum on)  
(Nitrogen metabolism)

MOGILEVSKIN, V.B.; SOBACHKIN, A.A.; PRISTER, B.S.

Neutron activation analysis in determining molybdenum in plant tissues  
[with summary in English]. Izv. TSKHA no.1:105-124 '62. (MIRA 15:6)  
(Radioactivation analysis) (Plants--Chemical analysis).  
(Molybdenum)

SOBACHKIN, A.A.; PRISTER, B.S.

Determining the molybdenum content of seeds by the polarographic method. Izv. TSKHA no.5:113~120 '62. (MIRA 16:?)

(Seeds) (Plants, Effect of Molybdenum on)  
(Polarography)

2. Структура и функции гомохроматического хроматина в ядре растительных клеток.

3. Установление структуры гомохроматического хроматина в ядре растительных клеток.

4. Установление структуры гомохроматического хроматина в ядре растительных клеток.

DUBININA, V.N.; KORNILOVICH, I.A.; SVIRSKIY, M.A.; SOBACHKIN, N.G.

Oxidation zone of lead-zinc and arsenic-lead-zinc deposits in  
eastern Transbaikalia. Trudy IGEM no.83:577-606 '63.  
(MIRA 16:11)

YAKOVLEVA, V.V.; SOBACHKINA, L.N.

Molybdenum effect on the activity of nitrate reductase in  
cauliflower as related to the conditions of nitrogen phosphate  
nutrition. Dokl. AN SSSR 159 no.2:455-456 N '64.

(MIRA 17:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut udobreniy i  
agropochvovedeniya. Predstavлено академиком А.Л. Курсановым.

KOVAC, Bela, dipl. tehn., saradnik (Beograd, Vjenceslava Kovača 8); LIMERKA,  
Slobodan, inž., saradnik; SOBAJIC, Miodrag, inž., saradnik.

Geiger-Müller counters as switching elements in the coincidence and  
anticoincidence circuits. Tehnika Jug 19 no.6: Supplement: Radioizotopi  
zrac 3 no.6:1015-1016 Je '64.

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Participation of the Dinaric tribesman in the First Serbian Insurrection. p. 81  
(GLASNIK. Vol. 2/3, 1953/54 (Published 1957)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957  
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SOBAJIC, P.

Some erroneous views on the origin of Dinaric tribes. p. 689  
(GLASNIK. Vol. 2/3, 1953/54 (Published 1957)

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SOBAJIC, F.

Svetozar Tomic (Mar. 30, 1872-May 21, 1954); an obituary. p. 929  
(GLASNIK, Vol. 2/3 1953/54 (Published 1957)

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SOBAKAR', G. T.: Master Geolog-Mineralo Sci (diss) -- "The structure of the zone where the Donbass meets the Azov massif. Based on geophysical data". Kiev, 1958. 12 pp (Acad Sci Ukr SSR, Inst of Geological Sciences), 150 copies (KL, No 1, 1959, 116)

SOBAKAR' Grigoriy Timofeyevich [Sobakar, H.T.]; KRUTIKHOVSKAYA, Z.O.  
[Krutikhovs'ka, Z.O.], kand.geol.-min.nauk, ovt.red.; SHKURKO,  
V.L., red.izd-va; MATVIYCHUK, O.O. [Matviichuk, O.O.], tekhn.red.

[Structure of the borderland between the Donets Basin and Azov  
massif based on geophysical data] Struktura zony zchlenuvannia  
Donbasu z Priazovs'kym masivom za danymy geofizyky. Kyiv, Vyd-vo  
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Instytut geologichnykh nauk [Trudy]. Seriya geotektoniky i  
geofizyky no.7)  
(Donets Basin--Geology) (Azov Upland--Geology)  
(MIRA 12:9)

LIPEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.]

Recent data on the block structure of the Kal'mius-Mius  
interfluve. Dop. AN URSR no. 6:783-786 '61. (MIRA 14:6)

1. Institut geologicheskikh nauk AN USSR. Predstavлено  
академиком AN USSR V. G. Bondarchukom.  
(Azov Sea region—Geology, Structural)

LEBEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.]

Tectonics of the northeastern Azov Sea Region by geophysical  
data. Dop. AN URSR no. 10:1341-1345 '61. (MIRA 14:11)

1. Institut geofiziki AN USSR. Predstavleno akademikom AN USSR  
V.G.Bondarchukom [Bondarchuk, V.H.].  
(Azov Sea Region--Geology, Structural)

LEBEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.]

Surface relief of Pre-Cretaceous rocks in the northeastern part of  
the Sea of Azov region. Dop. AN URSR no.11:1512-1515 '61.  
(MIRA 16:7)

I. Institut geofiziki AN UkrSSR. Predstavлено академиком  
АН UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].  
(Azov Sea region--Geology, Structural)

LEBEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.]

Some recent data on the density of sedimentary rocks in the  
southern outskirts of the Donets Basin. Dop. AN UkrSSR no.12:  
(MIRA 16:11)  
1601-1605 '61.

1. Institut geofiziki AN UkrSSR. Predstavлено академиком  
AN UkrSSR S.I. Subbotinym.

SOBAKAR', G.T. [Sobakar, H.T.]

Structure of the convergence zone of the Donets Basin and Azov  
Upland from geophysical data. Geol.zhur. 21 no.3:60-65 '61.  
(MIRA 14:7)

1. Institut geologicheskikh nauk AN USSR.  
(Donets Basin--Geology, Structural)  
(Azov Upland--Geology, Structural)

LEBEDEV, Taras Sergeyevich; SOBAKAR', Grigoriy Timofeyevich; SUBBOTIN,  
S.I., akademik, otv. red.; ANTONYUK, Ye.I., red.; RAKHLINA,  
N.P., tekhn. red.

[Tectonics of the northeastern Azov Sea region; based on  
geophysical data]Tektonika severo-vostochnogo Priaзов'ia; po  
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USSR, 1962. 82 p. (MIRA 15:10)

1. Akademiya nauk Ukrainskoy SSR (for Subbotin).  
(Azov Sea region--Geology, Structural)

LEBEDEV, T.S.; SOBAKAR', G.T.

Some characteristics of the tectonics of the northeastern part  
of the Azov Sea region, based on geophysical data. Geofiz.sbor.  
no.1:11-23 '62. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR.  
(Azov Sea region--Geology, Structural)

LEBEDEV, T.S.; SOBAKAR', G.T.; OROVETSKIY, Yu.P.; BOLYUBAKH, K.A.

Geologic structure of the conjugated zone of Pokrovo-Kireevskiy and  
Tel'manovo blocks in the northeastern part of the Azov Sea region.  
Geofiz.sbor. no.1:32-36 '62. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR.  
(Azov Sea region--Geology, Structural)

SOBAKAR', G.T.

Development of a gravity base network by the method of triangular  
polygons. Geofiz.sbor. no.1:37-43 '62. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR.  
(Gravity)

SOBAKAR', G.T.

Simple interrelation of the accuracy of surveying, density of observation points, image scale, and intersection of isanomals in gravimetric and magnetometric investigations. Geofiz.sbor. (MIRA 16:3)  
no.1:50-55 '62.

1. Institut geofiziki AN UkrSSR.  
(Gravity) (Magnetism, Terrestrial)

LEBEDEV, T.S. [Lebediev, T.S.]; SOBAKAR', G.T. [Sobakar, H.T.];  
OROVETSKIY, Yu.P. [Orovets'kyi, Iu.P.]; BOLYUBAKH, K.A.

Recent data on the geological structure of the zone of  
junction of the Pokrovo-Kireyevo and Tel'manovo blocks  
(northeastern part of the region of the Sea of Azov).  
Dop. AN URSR no.1:91-94 '62. (MIRA 15:2)

1. Institut geofiziki AN USSR. Predstavлено akademikom  
AN USSR V.G.Bondarchukom [Bondarchuk, V.H.].  
(Donetsk Province—Geology, Structural)

SOBAKAR', G.T.; LEBEDEV, T.S.

Taking into account the effect of relief in gravimetric studies in the  
mountain regions. Geofiz.sbor. no.2:33-40 '62. (MIRA 16:3)

1. Institut geofiziki AN UkrSSR.  
(Ukraine—Gravity anomalies). (Ukraine—Landforms)

SOBAKAR', G.T.

Simple relationship between survey accuracy, density of  
the observation points, image scale, and the isoanomaly section  
in gravity and magnetic studies. Geofiz. razved. no.8:34-41  
'62. (MIRA 15:7)

(Gravity prospecting)

(Magnetic prospecting)

LEBEDEV, Taras Sergeyevich; SOBAKAR<sup>1</sup> Grigoriy Timofeyevich;  
OROVETSKIY, Yuriy Pavlovich; BOLYUBAKH, Klavdiya  
Antonovna; SUBBOTIN, S.I., akademik, otv. red.;  
MEL'NIK, A.F., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Tectonics of the central part of the northern slope of  
the Crimean Mountains and results of its studying; based  
on geophysical and geological data] Tektonika tsentral'-  
noi chasti severnogo sklona Krymskikh gor i opty ee izu-  
cheniya; po materialam geofizicheskikh i geologicheskikh  
issledovanii. [By] T.S.Lebedev i dr. Kiev, Izd-vo Akad.  
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1. Akademiya nauk Ukr.SSR (for Subbotin).  
(Crimean Mountain--Geology, Structural)

LEBEDEV, T.S.; SOBAKAR', G.T.; OROVETSKIY, Yu.P.

Physical properties, composition, and age of crystalline shales,  
sandstones, and spilite-type rocks in the northeastern Azov Sea  
region. Geofiz. sbor. no.4:19-27 '63. (MIRA 16:9)

1. Institut geofiziki AN UkrSSR.

SOBAKAR', Grgiroiy Timofeyevich; GOLOVTSYN, V.N., prof., etv.  
red.; SHTUL'MAN, I.F., red.

[Subsurface tectonics of the Azov Massif and some  
adjacent territories; based on geophysical studies]  
Glubinnaia tektonika Priazovskogo massiva i nekoto-  
rykh sosednykh territorii; po dannym geofizicheskikh  
issledovanii. Kiev, "Naukova dumka," 1964. 146 p.  
(MIKA 17:7)

ЛЕБЕДЬ, Г.С. [Lebedev, G.S.]; СОМАКОВ, Г.Т. [Somakov, G.T.]; ОЛОВЯКИЙ,  
Ю.Р. [Olov'yakii, Yu.R.]; БОЛЮБАШ, Н.А.

New data on the tectonics of the central part of the northern slope of  
the Crimean Mountains on the basis of the materials of geophysical  
studies. Dop. AN UkrSSR no.3:3-6-390 '63. (EMA 17:10)

1. Institut geofiziki AN UkrSSR. Predstavleno akademikom AN UkrSSR  
S.I. Subbotinym.

ACC NR: AT7003832

SOURCE CODE: UR/3169/66/000/018/0019/0028

AUTHOR: Sobakar', G. T.

ORG: Institute of Geophysics, AN UkrSSR

TITLE: Geological structure of the Ukraine and recent movements in the earth's crust

SOURCE: AN UkrSSR. Geofizicheskiy sbornik, no. 18, 1966. Geofizicheskiye issledovaniya stroyeniya zemnoy kory (Geophysical investigations of the structure of the earth's crust), 19-28

TOPIC TAGS: geologic survey, geologic research facility, geography, earth crust, tectonics, mineralogy, statistic analysis

ABSTRACT: The Institute of Geophysics of the Academy of Sciences of the Ukrainian SSR has been observing movements in the earth's crust in the Carpathian Mountain area for the past few years using high precision repeated leveling. The leveling interval has been from 10 to 60 years. Analysis of graphs of recent movements shows that fairly clear and intense vertical movement in both directions has occurred. There are sectors where the direction of movement changes every few kilometers. The movement is so intense that there is almost no single location which has not changed its relative position. Investigation of the movement has demonstrated that there is a close interconnection between the structural elements present in the tectonics of

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ACC NR: AT7003832

the region and the movements. A statistical analysis of isodynes of the contemporary movements is made so as to determine the primary directions in which movement is occurring. The analysis indicates that for the generation of recent movements in the central Ukrainian area, there must be a source of forces within the earth, the energy from which would periodically cause an upthrusting of the crust. The discharge period of this force is historically evident. The three areas in the Ukraine showing the most active recent upthrust are the three most important and promising areas for the location of metallic ores. Orig. art. has: 4 figures.

SUB CODE: 08/SUBM DATE: 26Oct65/ORIG REF: 014

Card 2/2

AR'YEV, Yuriy Alekseyevich; LUGA, Aleksandr Aleksandrovich; PAVLUSHKOV,  
Vladimir Vsevolodovich; SOBAKIN, Aleksandr Vladimirovich;  
CHEZHIN, Vladimir Aleksandrovich; SERGEYEV, A.F., red.; GALAKTIONOVA,  
Ye.N., tekhn.red.

[Constructing large bridges with supports on pile rafts] Postroika  
bol'shogo mosta s oporami na svainykh rostverkakh. Moskva, Nauchno-  
tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR,  
1959. 50 p. (Bridges--Foundations and piers) (MIRA 13:4)

SOBAKIN, M.A.

CAND MED SCI

Dissertation: "Peristalsis of the Stomach During Digestion and Under Conditions  
of Physiological Hunger."

26 May 49

Acad Med Sci USSR

SO Vechernaya Moskva

Sum 71

SOBAKIN, M.A.

SOBAKIN, M.A.

Clinical physiological method of electrographic investigation of the  
motor function of the stomach in digestion. Biul. eksp. biol. i med.  
(MLRA 8:3)  
38 no.12:63-66 D '54.

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. deystvi-  
tel'nyy chlen AMN SSSR I.P.Razenkov) Instituta fiziologii (dir. dey-  
stvitel'nyy chlen AMN SSSR V.N.Chernigovskiy) AMN SSSR, Moskva.  
(STOMACH, physiology  
motor funct. during digestion, electrographic  
investigation)

JWPA, M.A., Doc Med Sci -- (Miss) "Motor activity of  
the stomach in digestion." Mos, 1958, 22 pp (Acad Med  
Sci (SS.) 2nd copies. List of author's works, ~~from~~  
pp 21-33 (14 titles) (KL, 61-68, 101)

- 7 -

ROSLYAKOVA, A.Z.; SOBAKIN, M.A.

Electrographic method for studying the motor activity of the large intestine. Nov. med. tekhn. no. 1:43-49 '60. (MIRA 14:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.  
(ELECTROPHYSIOLOGY) (INTESTINES)

S/194/61/000/012/080/007  
D273/D301

AUTHORS: Gurevich, M. D., Klynkachev, V. A., Sobakin, M. A.  
and Yakovlev, S. I.

TITLE: Ultrasonic diagnostic apparatus for the study of soft  
tissues УЗД-4 (UZD-4)

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,  
no. 12, 1961, 22, abstract 12E122. ("Novosti med.  
tekhn." 1960, no. 6, 3-17)

TEXT: The possibilities of ultrasonic diagnostics are examined.  
The diagnostic apparatus UZD-4 designed in the ВНИИМиО (VNIIMiO)  
is described. It is noted that one of the most important parameters  
of the instrument - the maximum depth action - is almost entirely  
determined by the ultrasonic damping coefficient in tissues and to  
a lesser degree depends on the power of the transmitter, the sen-  
sitivity of the receiver and other factors. The UZD-4 works at  
frequencies of 2.5; 5; 10 and 15 Mc/s, a launching frequency of  
1000 c/s, and a pulse length of 3 microseconds. The depth of sound  
✓

Card 1/2

S/194/61/000/012/080/097

D273/D301

Ultrasonic diagnostic apparatus ...

ing at 2.5 Mc/s reaches 90 mm and the destructive mode forms at a depth of 3.5 mm and at an azimuth of 5 mm. For 15 Mc/s, these parameters are respectively equal to 20, 1.2 and 5 mm. The power consumption is 1.4 KVA. The instrument has 2 ЭЛТ (ELT): The first tube with a linear afterglow and brightness modulation is designed to obtain a two-dimensional representation of organ sections along the scanning beam; the second tube with an oscillographic reamer is used with a fixed position indicator. A detailed description is given of the generator circuit of the UZD-4 and constructional details of the instrument. A sketch is given of the scanning position indicator consisting of a hermetically sealed body with a tube of determined length, in which a piezoelectric converter has a back and forth movement. As indicator of the position of the piezo-element, a linear potentiometer is used, whose potential is amplified and applied to the deflection system of the ELT. 5 figures. ✓  
! table. / Abstractor's note: Complete translation. /

Card 2/2

SOBAKIN, M. A.; MUKHINA, A. P.

Electrography of the motor activity of the small intestine. (Experimental studies). Nov. med. tekhn. no.2:8-14 '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya Institut normal'noy i patologicheskoy fiziologii AMN SSSR.

(ELECTROGASTROGRAPHY)

GUREVICH, M.D.; SVADKOVSKAYA, N.F.; SOBAKIN, M.A. (Moskva)

Ultrasonics in medicine. Sov. zdrav. 20 no.8:19-23 '61.  
(MIRA 15:1)  
(ULTRASONIC WAVES--THERAPEUTIC USE)

RABINOVITCH, N.E.; SOBAKIN, M.A.; YUREVICH, V.M.

Study of frequency changes in the brain biopotentials during  
ether anesthesia. Nov. med. tekhn. no.2:45-51 '64.  
(MIRA 18:11)

ROSLYAKOVA, A.Z.; SOBAKIN, M.A.

Nov. data for developing the methodology of electrocolography.  
Nov. med. tekhn. no.2:95-98 '64.  
(MIRA 18:11)

MORDOVTSOV, A.I.; BOL'CHOVA, I.P.

Effect of individual vitamins and their complexes on the conditioned reflex activity in pigeons. Vop. pit. 23 no.5:41-45  
(MIRA 18:5)  
S.-D '64.

I. Laboratoriya fizicheskikh metodov izucheniya fiziologicheskikh funktsiy (zav. prof. M.A.Sobakin) Instituta pitaniya AMN SSSR,  
Moskva.

BRAKSH, T.A.; POPOVA, A.V.

Tryptophan requirements under nervous stress. Vop. pit. 23 no.6:21-25  
N-D '64. (MIRA 18:6)

I. laboratoriya fizicheskikh metodov issledovaniya fiziologicheskikh  
funktsiy (zav. - prof. M.A.Sobakin). Instituta pitaniya AMN SSSR,  
Moskva.

TONKOV, D.V. (Moskva)

Effect of certain food stimulants on the motor activity of  
the gall bladder. Vop. pit. 24 no.1175-78 Ja-F '65.

(MIPA 18:9)

I. Laboratoriya fizicheskikh metodov fiziologicheskikh funktsiy  
(zav., prof. M.A. Babakin) Instituta pitaniya ANN SSSR, Moskva.

SOPAKIN, M. P.

Cand. Tech. Sci.

Dissertation: "Certain Problems of Gas Motion in Furnaces."

23 Jun. 49

Moscow Order of the Labor Red Banner Inst. of Steel  
imeni I. V. Stalin

SO Vecheryaya Moskva  
Sum 71

IVANTSOV, G.P., kandidat tekhnicheskikh nauk; SOBAKIN, M.P., kandidat  
tekhnicheskikh nauk; CHISTYAKOV, V.S., inzhener.

Best thermal conditions for smelting using oxygen. Sbor.trud.  
TSNIICHM no.13:153-170 '56. (MLRA 9:11)  
(Zaporozh'ye--Smelting)  
(Oxygen--Industrial applications)

IVANTSOV, G.P., kandidat tekhnicheskikh nauk; SOBAKIN, M.P., kandidat  
tekhnicheskikh nauk.

Hydraulic model for investigating various methods of injecting  
oxygen to the flame jet in open-hearth gas furnaces. Sbor.trud.  
TSNIICHEM no.13:207-228 '56. (MLRA 9:11)

(Open-hearth furnaces--Models)  
(Oxygen--Industrial applications)  
(Flame)

*Горбачев М.Р.*

КОНВЕРТЕРНОЕ ПРОИЗВОДСТВО СТАЛИ

В.И.Балтачевский Исследование влияния сжигания газов на процесс в конвертерной печи.

В.М.Победило Лабораторные опыты по пропуску  
Н.П.Лавренев перегоняющих газов.  
А.Е.Хлебников

А.М.Семенов

М.П.Соболев Изучение на моделях гидродинамики  
К.Д.Бердаков конвертерной печи.

М.П.Качин Порядок кругов с плавильным содействием марганца в конвертере  
с применением кислорода.

М.М.Шумов Выплавка стали в конвертере из  
перегоняющих газов и коксово-шлакового чугуна.

Т.Р.Андреев Определение структурных явлений  
Б.С.Гурьев при перегонке, диффузии и  
В.Д.Зыгитова облучении передовых высокотехнологичных  
чугунов в конвертере.

В.И.Балтачевский Исследование загрязненности кон-  
Ю.А.Пурников вертной стали при выплавке кисло-  
родным дутьем.

А.И.Изюм Составление газов в чугунах при  
А.С.Овчинников редукции первичных конвертерных  
корпусов фосфористых чугунов с  
применением кислорода.

С.Г.Абрамов Изучение электроплавки в газом-  
М.М.Шумов газовых плавильных печах при про-  
М.П.Качин дувке чугуна кислородом сразу.

Report submitted for the 5th Physical Chemical  
Conference on Steel Production, Moscow-- 30 Jun 1959.

PHASE I BOOK EXPLOITATION

SOV/5411

Konferentsiya po fiziko-khimicheskim osnovam proizvodstva stali. 5th,  
Moscow, 1950.

Fiziko-khimicheskiye osnovy proizvodstva stali; trudy konferentsii  
(Physicochemical Bases of Steel Making; Transactions of the  
Fifth Conference on the Physicochemical Bases of Steelmaking)  
Moscow, Metallurgizdat, 1961. 512 p. Errata slip inserted.  
3,700 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni  
A. A. Baykova.

Responsible Ed.: A. M. Samarin, Corresponding Member, Academy  
of Sciences USSR; Ed. of Publishing House: Ya. D. Rozentsveyg.  
Tech. Ed.: V. V. Mikhaylova.

Card 1/16

115

Physicochemical Bases of (Cont.)

SOV/5411

PURPOSE: This collection of articles is intended for engineers and technicians of metallurgical and machine-building plants, senior students of schools of higher education, staff members of design bureaus and planning institutes, and scientific research workers.

COVERAGE: The collection contains reports presented at the fifth annual convention devoted to the review of the physicochemical bases of the steelmaking process. These reports deal with problems of the mechanism and kinetics of reactions taking place in the molten metal in steelmaking furnaces. The following are also discussed: problems involved in the production of alloyed steel, the structure of the ingot, the mechanism of solidification, and the converter steelmaking process. The articles contain conclusions drawn from the results of experimental studies, and are accompanied by references of which most are Soviet.

Card 2/16

BUKANOV, Mikhail Aleksandrovich; PED', L.I.; SOBAKIN, N.S.; FARSHTEIN,  
E.Yu.;

[Handbook for the station agent-on-duty] Spravochnik dezinformatsionnogo po stantsii. Moskva, Transport, 1965. 329 p.  
(MIRA 18:L2)

MARTYNOVA, M.A.; S. BAKIN, O.N.

Some characteristics of the gas composition of underground  
waters as revealed by a study made in southwestern Tajikistan.  
Vest. IGU 19 no.18:116-120 '64.

(MIRA 17:11)

SOBAKIN, V., starshiy bortradist (Vnukovo)

Simple tuning of a transmitter. Grazhd.av 17 no.9:15 S '60.  
(MIRA 13:9)  
(Airplanes--Radio equipment)

S/194/61/000/009/027/053  
D209/D302

AUTHORS: Pashentsev, I.D., Volkov, V.F. and Sobakin, V.A.

TITLE: Contactless numerical code transmitter with magnetic amplifiers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,  
no. 9, 1961, 55, abstract 9 V439 (Sb. Leningr. in-ta  
inzh. zh-d. transp., 1960, no. 169, 215-230)

TEXT: A contactless numerical code transmitter is described generating code impulses for systems of automatic blocking and automatic signalling with automatic stop using a circuit with seven magnetic amplifiers. An analysis of transmitter circuit protection in case of likely breakdowns is carried out and experimental test results of a model in various environmental conditions are given. The model proved to operate satisfactorily in the temperature range of -30 to 55°C. 12 figures. 1 reference. Abstracter's note:  
Complete translation

Card 1/1

L 4086-66 EWT(l)/T/EWA(h) IJP(c) AT

ACCESSION NR: AP5021729

UR/0386/65/002/002/0071/0075

AUTHOR: Kagan, Yu.; Sobakin, V.

TITLE: Anisotropy of the odd photomagnetic effect in semiconductors of cubic symmetry

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniya, v. 2, no. 2, 1965, 71-75

TOPIC TAGS: semiconductor carrier, germanium semiconductor, photomagnetic effect, relaxation process

ABSTRACT: The authors point out that although most earlier studies were devoted to even photomagnetic effects, it is possible to obtain in strong magnetic fields information on the behavior of purely anisotropic odd photomagnetic effects, depending on the magnitude and orientation of the magnetic field. Like the purely anisotropic even effects, the odd effects are determined by the carrier spectrum and the carrier relaxation times. A detailed analysis is presented for the case of germanium, in which photocarrier diffusion is produced in the direction of the [111] axis. An expression is derived for the emf of the odd photomagnetic effects and the variation of the emf with the field is investigated for different values

Card 1/3

L 4086-66

ACCESSION NR: AP5021729

6

of the angle between the magnetic field and carrier diffusion vector. Some of the data are shown in Fig. 1 of the Enclosure. The results are found to be in agreement with experimental data (I. K. Kikoin and S. D. Lazarev, ZhETF Pis'ma v redaktsiyu v. 2, 75, 1965). "The authors are grateful to Academician I. K. Kikoin and to S. D. Lazarev for supplying their experimental data prior to publication." Orig. art. has: 2 figures and 2 formulas. [02]

ASSOCIATION: None

SUBMITTED: 25May65

ENCL: 01

SUB CODE: SS, EM

NO REF Sov: 003

OTHER: 004

ATD PRESS: 4127

Card 2/3

I 4086-66

ACCESSION NR: AP5021729

ENCLOSURE: 01

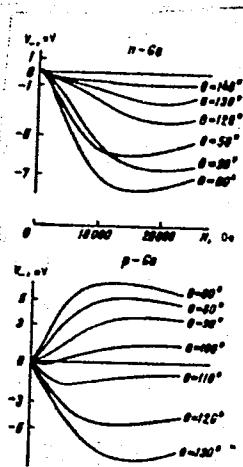


Fig. 1. Plot of the emf of the odd photomagnetic effect in Ge (arbitrary units) against the magnetic field for fixed field directions.

BVK  
Card 3/3

L 8593-66 EWT(m)/EWP(b)/EWP(t) IJP(c) JD

ACCESSION NR: AP5019896

UR/0181/65/007/008/2565/2567

AUTHOR: Kagan, Yu.; Sobakin, V. N.

TITLE: Concerning the anisotropy of the even photomagnetic effect in germanium

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2565-2567

TOPIC TAGS: germanium, photomagnetic effect, physical diffusion, current carrier

ABSTRACT: This is a companion to an experimental paper in the same source (I. K. Kikoin and S. D. Lazarev, FTT v. 7, 2564, 1965; Acc. Nr. AP5019895), in which a theory previously developed by the authors (J. Phys. Chem. Sol. v. 26, 1965) is used to derive an expression for the even purely anisotropic photomagnetic effect in p-type semiconductors for arbitrary directions of the magnetic field and arbitrary diffusion direction of the photoproduced carriers. The particular case of p-Ge with the carriers diffusing along the (111) axis is treated. The theory as applied to this case predicts the behavior shown in Fig. 1 of the Enclosure. The experimental values obtained by Kikoin and Lazarev for the zeroes of the photomagnetic emf is in very close agreement with the theory. "The authors thank I. K. Kikoin and S. D. Lazarev for providing the experimental data prior to publication."

Orig. art. has: 2 figures and 1 formula.

Card 1/3

L 8593-66  
ACCESSION NR: AP5019896

ASSOCIATION: None

SUBMITTED: 08Apr65

ENCL: 01

SUB CODE: SS, EM

NR REF Sov: 004

OTHER: 004

Card 2/3

L 8593-66  
ACCESSION NR: AP5019696

ENCLOSURE: 01

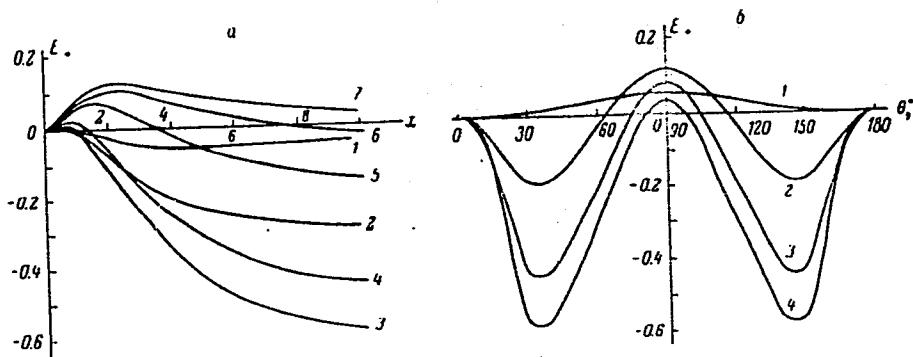


Fig. 1. Dependence of photomagnetic effect (arbitrary units) on  $x$  (left) and on the angle  $\theta$  (right) for different values of the angle and  $x$ .

jw  
Card 3/3

L 24326-66 EWT(1) IJP(c) GG

ACC NR: AP6010424

SOURCE CODE: UR/0020/66/167/002/0318/0321

AUTHOR: Sobakin, V. N.

ORG: none

21

21

60  
59  
B

TITLE: Contribution to the quantum theory of the photomagnetic effect in semiconductors

SOURCE: AN SSSR. Doklady, v. 167, no. 2, 1966, 318-321

TOPIC TAGS: photomagnetic effect, quantum theory, semiconductor carrier, dispersion equation, impurity scattering, electric field, magnetic field, particle motion

ABSTRACT: The author determines the dependence of the electric field produced by the photomagnetic effect on the magnetic field and on the parameters of a semiconductor for the quantum region ( $\hbar\Omega \gg kT$ , where  $\Omega$  is the Larmor frequency), when the semiconductor contains simultaneously electrons and holes with essentially different effective masses and obeying different statistics. The problem is solved by using simultaneously the quantum-mechanical description of particle motion in a strong magnetic field and the density-matrix formalism,

Card

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UDC: 548.0:535 + 548.0:537

2

L 24326-66  
ACC NR: AP6010424

for the case of the odd photomagnetic effect under the assumption that the dispersion law of the quasiparticles of both types and that the impurity scattering mechanism are both isotropic. The resultant formula for the field is analyzed for several particular cases of different magnetic field strengths and different particle distribution laws. The author thanks Yu. Kagan for suggesting the topic and numerous discussions. This report was presented by Academician I. K. Kikoin. Orig. art. has: 13 formulas.

SUB CODE: 20/ SUBM DATE: 05Jul65/ ORIG REF: 007/ OTH REF: 001

Card 2/2 PB

SHCHERBACHEVICH, Georgiy Stepanovich, inzh.; KHARLAMOV, Pavel Georgiyevich,  
inzh.; SOBAKIN, V.V., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Safety engineering guide for the crews of diesel locomotives]  
Pamiatka po tekhnike bezopasnosti teplovoznyh brigad. Moskva,  
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniya,  
1960. 45 p. (MIRA 14:4)  
(Diesel locomotives--Safety measures)

TIBASHEV, A.I., inzh.; SOBAKIN, V.V., inzh., red.; USENKO, L.A., tekhn.  
red.

[Locomotive engineers as innovators] Novatory mashinisty paro-  
vozov; sbornik statei. Moskva, Vses. izdatel'sko-polig. ob"edif"-  
enie M-va putei soobshcheniya, 1961. 134 p. (MIRA 14:8)  
(Locomotive engineers)

GONCHAROV, Viktor Mikhaylovich; MURZIN, Leonid Gavrilovich; MIRONOV,  
M.I., inzh., retsenzent; BLIDCHENKO, I.F., inzh., retsenzent;  
MOSKVIN, G.N., inzh., retsenzent; SOBAKIN, V.V., inzh., red.;  
USENKO, L.D., tekhn. red.

[Fuel, lubricants, and water] Toplivo, smazka, voda. Izd.2., perer.  
i dop. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soob-  
shcheniya, 1961. 158 p. (MIRA 14:12)  
(Railroads—Equipment and supplies)

LOSEV, Aleksey Vasil'yevich; KONNOV, Yevgeniy Porfir'yevich; SEMENOV,  
Ivan Mikhaylovich; GENICH, Boris Abramovich; SHARONIN, V.S., kand.  
tekhn. nauk, retsenzent; SOBAKIN, V.V., inzh., red.; KHITROV, P.A.,  
tekhn. red.

[Using and repairing antifriction bearings in locomotives] Ekspluata-  
tsiya i remont podshipnikov kacheniiia lokomotivov. Moskva, Vses. izda-  
tel'sko-poligr. ob'edinenie M-va putei soobshcheniiia, 1961. 162 p.  
(MIRA 14:8)

(Bearings(Machinery))

GALEYEV, Akhmet Umerovich [deceased]; FERSHITS, Yuliy Isaakovich; MELA-  
MED, D.A., inzh., retsenzent; LEDEDEV, A.V., inzh., retsenzent;  
SOBAKIN, V.V., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Fundamentals of mechanics for locomotive crews] Osnovy mekhaniki  
dlia lokomotivnykh brigad. Moskva, Vses.izdatel'sko-poligr.ob"edi-  
nenie M-va putei soobshcheniya, 1961. 167 p. (MIRA 14:11)  
(Mechanics) (Railroads)

FIL'KOV, Nikolay Iosifovich; ; SHABLIY, Vladimir Maksimovich; MAYZEL',  
Mark Moiseyevich; SOBAKIN, V.V., inzh., red.; VOROB'YEVA, L.V.,  
tekhn. red.

[Repair of the trucks of the TE3 diesel locomotive] Remont te-  
lezhek teplovoza TE3. Moskva, Transzheldorizdat, 1962. 57 p.  
(MIRA 15:12)

(Diesel locomotives--Maintenance and repair)

KLYKOV, Yevgeniy Vladimirovich, kand. tekhn.nauk; KAZARINOV, V.M.,  
prof., retsenzent; BOROVSKIY, G.M., kand. tekhn. nauk, red.;  
SOBAKIN, V.V., inzh., red.; KHITROVA, N.A., tekhn. red.

[Braking of trains] Tormozhenie poezda. Moskva, Transzheldorizdat,  
1962. 139 p. (MIRA 16:1)  
(Railroads--Brakes)

ZEL'TSER, G.Ya.; VOLOBOYEV, I.N.; KOSTIN, A.P.; BULGAKOV, A.A.;  
VOZNYUK, V.S.; KALMYKOV, A.M.; STUDENTSOV, S.A.; BERSHIDSKIY,  
P.I.; MOISEYEV, G.A., inzh., retsenzent; SCBAKIN, V.V., inzh.,  
red.; VOROTNIKOVA, L.F., tekhn. red.

[The TG102 diesel locomotive] Teplovoz TG102. Moskva, Transzhel'dor-  
izdat, 1962. 150 p. (MIRA 16:1)  
(Diesel locomotives--Hydraulic drive)

GURSKIY, P.A.; MERRO, Ye.M.; KHUTOHYANSKIY, N.M.; ANISIMOV, N.M.;  
ARZHANNIKOV, S.M.; KORENEVSKIY, M.V., inzh., retsenzent;  
STETSENKO, Ye.G., kand. tekhn. nauk, retsenzent; SOBAKIN,  
V.V., inzh., red.; VASIL'YEVA, N.N., tekhn. red.

[Experience in the organization of railroad laboratory for  
the inspection and maintenance of measuring equipment] Opyt  
organizatsii dorozhnoi kontrol'no-izmeritel'noi laboratorii.  
Moskva, Transzheldorizdat, 1962. 167 p. (MIRA 16:1)  
(Railroads—Equipment and supplies)  
(Moscow—Testing laboratories)